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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,690	08/03/2006	David Strand	005092-00073	8430
22910	7590	01/23/2009	EXAMINER	
BANNER & WITCOFF, LTD.			KWAK, DEAN P	
28 STATE STREET			ART UNIT	PAPER NUMBER
28th FLOOR			1797	
BOSTON, MA 02109-9601				
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01/23/2009		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/537,690	STRAND ET AL.	
	Examiner	Art Unit	
	Dean Kwak	1797	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-61 is/are pending in the application.
 - 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) ____ is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) 1-61 are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. ____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date ____ .	6) <input type="checkbox"/> Other: ____ .

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- A. **Operative component:** a fluid reservoir; a solid reagent suitable to be dissolved during use of the assembly; holds an enzyme, catalyst or other reagent; a sensor; a light sensor across a microscale fluid flow channel within the substrate body; a flow sensor, pressure sensor, thermal or temperature sensor, pH sensor, O₂ sensor, conductivity sensor, acoustic sensor, voltage sensor current sensor chemical sensor, electrochemical sensor; a sensor for detection based on conductimetric, voltametric, redox, electrochemiluminescent, atomic emission and/or calorimetry detection principles; an ultrasonic actuator or transducer across a microscale fluid flow channel within the substrate body; operative to generate fluid pressure in a microchannel of the substrate body; a valve, pressure regulator, flow regulator, external port or plug, filter, trap or absorbent; a thermal actuator or a thermoelectric module for heating or cooling; a component to degass (remove dissolved or evolved gases and/or bubbles) from fluid being treated or handled by the microfluidic assembly, as a component to excite (e.g., fluorescence),

illuminate (absorption source) or irradiate (e.g., microwave reactions or heating) a fluid being treated or handled by the microfluidic assembly, as a component that is a miniaturized mass spectrometer, as a component that is a NMR or MRI spectroscopy detector (e.g., a flowcell and a microcoil in combination), and/or as a chromatographic, electrophoretic, isotachophoretic, isoelectric focusing, field gradient focusing or other separation column or chamber used for focusing and/or elution of molecules, particles, cells, organelles, or other species or objects; an impellant device; operative to directly contact a fluid in the microscale fluid flow channel; one of a micromachined pump, diaphragm pump, syringe pump and a volume occlusion pump; operative to induce flow in a microscale fluid flow channel by one of endosmotically and electrochemical evolution of gases; permanently mounted in a socket; permanently mounted in a socket using potting compound; removably mounted in a socket; an electronic memory component; a microprocessor; an electronic tracking device; a substrate body defining: at least one fluid input port, at least one microscale fluid flow channel, and at least one operative device.

- B. **Memory component:** a read only memory component; a read/write memory component.
- C. **Data channel:** in electrical communication with the data port; in optical communication with the data port; in electrical communication with at least one of the sockets; in optical communication with at least one of the sockets; bi-directional.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

2. The following claim(s) are generic: none appear to be generic.
3. A telephone call was made to MCDERMOTT, PETER on 16Jan09 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dean Kwak whose telephone number is 571-270-7072. The examiner can normally be reached on M-TH, 5:30 am - 4 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

16Jan09
/Lyle A Alexander/
Primary Examiner, Art Unit 1797
/D. K./
Examiner, Art Unit 1797